

PO Job Risk Assessment

Name(s) of Risk Team Members: K. Asselta, E. O'Brien, R. Liegel (facilitator)	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Wire chamber fabrication Job Number or Job Identifier: PO-JRA-021	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Building, testing and operating wire chamber detectors and components.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional):	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Rev. #: 0	Date: March 21, 2005					
Stressors (if applicable, please list all):		Reason for Revision (if applicable):			Comments:	

				Before Additional Controls							After Additional Controls						
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction	
Fabrication of chamber parts	Machine shop work in Physics	See PO-JRA-011	N	1	2	3	2	12									
Assembly of mechanical components	Use of hand tools and fixtures	See PO-JRA-016	N	2	2	2	1	8									
Assembly of electronic and electrical components	Electronic shop work	See PO-JRA-009	N	1	2	1	1	2									

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Application of epoxies and glues	Routine chemical use	See PO-JRA-017	N	2	2	3	1	12								
Flowing gases through chamber	Compressed gas work	See PO-JRA-012	N	1	2	3	1	6								
Winding wires on frames	Back injury	Procedures, lifting technique, training, use of lifting equipment	N	2	3	2	1	12								
Applying high voltage (low current) to chamber	Electrical shock	Training, chamber design, current limiting devices, postings, rope area, proper cables and connectors, work planning, make connections while de-energized	N	1	1	1	3	3								
	Reflex injury	Training, chamber design, current limiting devices, postings, rope area, proper cables and connectors, work planning, clear work area, make connections while de-energized	N	1	1	1	3	3								
Testing, troubleshooting chamber with electronic devices	Electrical shock	Training, chamber design, current limiting devices, postings, rope area, proper cables and connectors, work planning, make connections while de-energized	N	1	1	1	3	3								

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				Before Additional Controls							After Additional Controls					% Risk Reduction
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	
Testing, troubleshooting chamber with electronic devices (cont'd)	Reflex injury	Training, chamber design, current limiting devices, postings, rope area, proper cables and connectors, work planning, clear work area, make connections while de-energized	N	1	1	1	3	3								
Testing, troubleshooting chamber with radioactive sources	Electrical shock	Training, chamber design, current limiting devices, postings, rope area, proper cables and connectors, work planning, position source while de-energized	N	1	1	1	3	3								
	Reflex injury	Training, chamber design, current limiting devices, postings, rope area, proper cables and connectors, work planning, clear work area, position source while de-energized	N	1	1	1	3	3								
	Radioactive source and material use	See PO-JRA-020 , RWP when needed	N	1	1	1	1	1								
Transporting chamber to other location	Vehicle use	See PO-JRA-001	N	1	1	2	2	4								
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate			61 to 80 Substantial			81 or greater Intolerable							